

Honeywell debuts new technologies across EV battery ecosystem

Honeywell

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From battery production to electric vehicle use, Honeywell solutions bring greater safety and efficiency to drivers and manufacturers

Honeywell (**Nasdaq: HON**) today announced two new solutions to optimise electric vehicle (EV) safety for drivers and manufacturing for gigafactories. The technologies, offered by Honeywell Process Solutions and Honeywell Sensing Solutions, support the company's alignment of its portfolio to three powerful megatrends, including the energy transition.

*"As the world moves at full speed toward electrification, a number of challenges have arisen, including how to make EV batteries safely, efficiently and at high volume," said **Victor Verissimo, General Manager, Electrification for Honeywell Industrial Automation**. "Our latest solutions across the EV landscape are aimed at reducing safety risks for this sector, creating greater transparency throughout the lifecycle of a battery and making the production process more efficient. By doing this, we are helping progress toward a more sustainable future."*

Titan Partnership Provides Unprecedented Visibility into Battery Cell Quality

Honeywell Process Solutions is partnering with Titan Advanced Energy Solutions, a pioneer in ultrasound-based battery interrogation systems, to integrate its sophisticated scanning technology into the Honeywell Battery Manufacturing Excellence Platform (MXP). Titan's ultrasound scanning solution enables real-time, in-line analysis of battery quality to detect any manufacturing defects not visible through traditional methods.

The Titan technology's thorough testing of every battery cell supports faster defect-tracing and overall process efficiency improvements, especially for early-stage gigafactories. By integrating the technology into the Honeywell Battery MXP, battery manufacturers will gain comprehensive,

end-to-end visibility into the batteries they are producing, enabling cost-effective, high-quality battery production at the large scale required for today's electrification needs.

New Safety Sensors Detect Thermal Runaway Signs in EV Batteries Before a Potential Fire

Honeywell Sensing Solutions is launching an advanced lithium-ion battery safety sensor for use in EVs. The Battery Safety Electrolyte Sensor (BES) utilises Li-ion Tamer™ electrolyte gas detection technology to detect "first vent" events, which are very early indicators of a potential battery fire. The indicators can issue a warning 5 to 20 minutes before a fire.

The BES solution can detect the gasses released by a failing battery cell before thermal runaway starts, serving as an early-warning device in an EV supervisory system. The technology enables operators to then take action to prevent the battery fire, potentially saving lives and avoiding significant property damage. The sensors also enable automobile manufacturers to comply with Global Technical Regulation No. 20 (Electric Vehicle Safety) and other emerging battery safety requirements.

About Honeywell

Honeywell is an integrated operating company serving a broad range of industries and geographies around the world. Our business is aligned with three powerful megatrends – automation, the future of aviation and energy transition – underpinned by our Honeywell Accelerator operating system and Honeywell Forge IoT platform. As a trusted partner, we help organisations solve the world's toughest, most complex challenges, providing actionable solutions and innovations through our Aerospace Technologies, Industrial Automation, Building Automation and Energy and Sustainability Solutions business segments that help make the world smarter and safer as well as more secure and sustainable.

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